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**FIRST
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(use as many sheets as necessary)

Sheet 1 of 2

Application Number	10/565,742
Filing Date	June 25, 2007
First Named Inventor	Ajit Varki et al.
Examiner Name	
Attorney Docket No.	1034123-000306

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
/CC/	US-20020192231	12-19-2002	Zhu et al.	
	US-5,045,532	09-03-1991	Valle et al.	
	US-5,059,680	10-22-1991	Davis et al.	
↓	US-4,695,198	10-23-1990	Yamasaki et al.	
US-				

FOREIGN PATENT DOCUMENTS

Examiner Initials	Foreign Patent Document Country Code ¹ , Number, Kind Code	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	STATUS					
				Translation	Partial Translation	Eng Summary	Lang Report	Search	IPER
/CC/	EP 0316818	11-11-1988	Kawamura et al.						

¹Enter Office that issued the document, by the two-letter code.

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
/CC/	BRINKMAN-VAN DER LINDEN, Els C. M.; E. R. Sjoberg; L. R. Juneha; P. R. Crocker; N. Varki; and A. Varki; "Loss of N-Glycolylneuraminic Acid in Human Evolution"; The Journal of Biological Chemistry; March 24, 2000, Vol. 275, No. 12, pp. 8633-8640
	BARDOR, Muriel; D. H. Nguyen; S. Diaz; and A. Varki; "Mechanisms of Uptake and Incorporation of the Non-human Sialic Acid N-Glycolylneuraminic Acid into Human Cells"; The Journal of Biological Chemistry, February 11, 2005, Vol. 280, No. 6, pp. 4228-4237
	SONNENBURG, Justin L.; H. van Halbeek; and A. Varki "Characterization of the Acid Stability of Glycosidically Linked Neuraminic Acid"; The Journal of Biological Chemistry; May 17, 2002; Vol. 277, No. 20, pp. 17502-17510
	OETKE, Cornelia; S. Hinderlich; R. Brossmer; W. Reutter; M. Pawlita; and O. T. Keppler; "Evidence for efficient uptake and incorporation of sialic acid by eukaryotic cells"; Eur. J. Biochem.; 2001; 265; pp. 4553-4561
	DEVINE, Peter L.; B. A. Clark; G. W. Birrell; G. T. Layton; B. G. Ward; P. F. Alewood; and I. F. C. McKenzie; Cancer Research; November 1, 1991; 51, pp. 5826-5836
	MARQUINA, Gilda; H. Waki; L. E. Fernandez; K. Kon; A. Carr; O. Valiente; R. Perez; and S. Ando; "Gangliosides Expressed in Human Breast Cancer"; Cancer Research; November 15, 1996; 56; pp. 5165-5171
↓	CHOU, Hsun-Hua; T. Hayakawa; S. Diaz; M. Krings; E. Indriati; M. Leakey; S. Paabo; Y. Satta; N. Takahata; A. Varki; "Inactivation of CMP-N-acetylneuraminic acid hydroxylase occurred prior to brain expansion during

Examiner Signature	/Changhwa Cheu/	Date Considered	04/09/2009
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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/CG/	"human evolution"; PNAS; September 3, 2002; Vol. 99, No. 18; pp. 11736-11741
	CHOU, Hsun-Hua; H. Takematsu; S. Diaz; J. Iber; E. Nickerson; K. L. Wright; E. A. Muchmore; D. L. Nelson; S. T. Warren; and A. Varki; "A mutation in human CMP-sialic acid hydroxylase occurred after the <i>Homo-Pan</i> divergence"; Proc. Natl. Acad. Sci. USA.; September 1998; Vol. 95; pp. 11751-11756
	VARKI, Ajit; "Sialic acids such as ligands in recognition phenomena" The FASEB Journal; March 1997; Vol. 11, pp. 248-255
	MUCHMORE, Elaine A.; S. Diaz; and A. Varki; "A Structural Difference Between the Cell Surfaces of Humans and the Great Apes"; American Journal of Physical Anthropology; June 10, 1998; 107; pp. 187-198
	SJOBERG, Eric R.; L. D. Powell; A. Klein; and A. Varki; "Natural Ligands of the B Cell Adhesion Molecule CD22β can be Masked by 9-O-Acylation of Sialic Acids"; The Journal of Cell Biology; July 1994; Voo. 126, No. 2., pp. 549-562
	COLLINS, Brian E.; T. J. Fralich; S. Itonori; Y. Ichiiwa; and R. L. Schnaar; "Conversion of cellular sialic acid expression from N-acetyl- to N-glycolylneuraminic acid using a synthetic precursor, N-glycolylmannosamine pentaacetate: inhibition of myelin-associated glycoprotein binding to neural cells" Glycobiology; 2000, Vol. 10, No. 1, pp. 11-20
	BARDOR, Muriel; D. H. Nguyen; S. Diaz; and A. Varki; "Mechanism of Uptake and Incorporation of the Non-human Sialic Acid N-Glycolylneuraminic Acid into Human Cells"; The Journal of Biological Chemistry; February 11, 2005; Vol. 290, No. 6., pp. 4228-4237
↓	BARDOR, Muriel, D. H. Nguyen; S. Diaz; and A. Varki; "Mechanism of Uptake and Incorporation of the Non-Human Sialic Acid N-glycolylneuraminic acid into Human Cells"; JBC Papers in Press, Manuscript M412040200; November 12, 2004; 43 pages

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